

OPEN-FILE REPORT  
This report has not been edited for conformity with  
U.S. Geological Survey editorial standards or  
stratigraphic nomenclature.

EXPLANATION

STRIPPING-LIMIT LINE—Boundary for surface mining  
of the coal bed (in this quadrangle, the 500-foot  
overburden isopach). Arrows point toward the area  
suitable for surface mining. Recovery factor of 85 per-  
cent within that area in this quadrangle

NON-FEDERAL COAL LAND—Land for which the  
Federal Government does not own the coal rights.

BOUNDARY OF COAL 5 FEET OR MORE THICK—  
Drawn along the outcrop of coal bed and/or the inferred  
contact between burned and unburned coal, and/or the  
5-foot coal isopach. Arrows point toward area of coal  
5 feet or more thick

POINT OF MEASUREMENT ON COAL BED

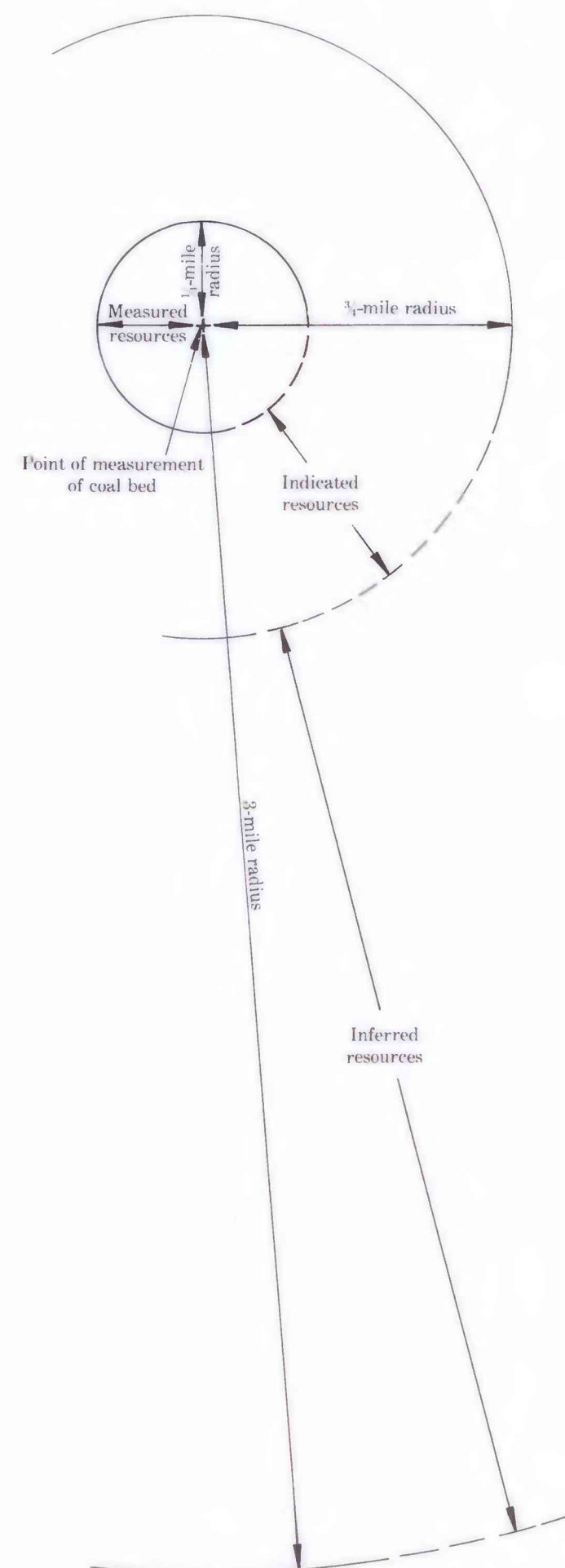


DIAGRAM SHOWING COMPONENT AREAS OF  
IDENTIFIED COAL RESOURCES—Shows arcuate  
boundary lines enclosing areas of measured, indicated,  
and inferred coal resources. Boundaries of areas are  
dashed where projected from an adjacent quadrangle.  
Areas of measured, indicated, or inferred resources  
may be present on this map without their outer  
boundaries being shown. Coal resources beyond the  
inferred category are hypothetical resources.

RB	R(85%)	
—	—	(Measured resources)
—	—	(Indicated resources)
17.41	14.80	(Inferred resources)
1.88 HYP	—	(Hypothetical resources)

IDENTIFIED AND HYPOTHETICAL COAL  
RESOURCES—Showing totals for Reserve Base (RB),  
Reserves (R), and Hypothetical (HYP) resources, in  
millions of short tons, for each section or part(s) of a  
section of Federal coal land within the stripping-limit  
line. Dash indicates no resources in that category.  
Reserve Base (RB) X the Recovery Factor (85 percent) =  
Reserves (R).

RB	R(85%)	
—	—	(Measured resources)
—	—	(Indicated resources)
1.68	—	(Inferred resources)
0.15 HYP	—	(Hypothetical resources)

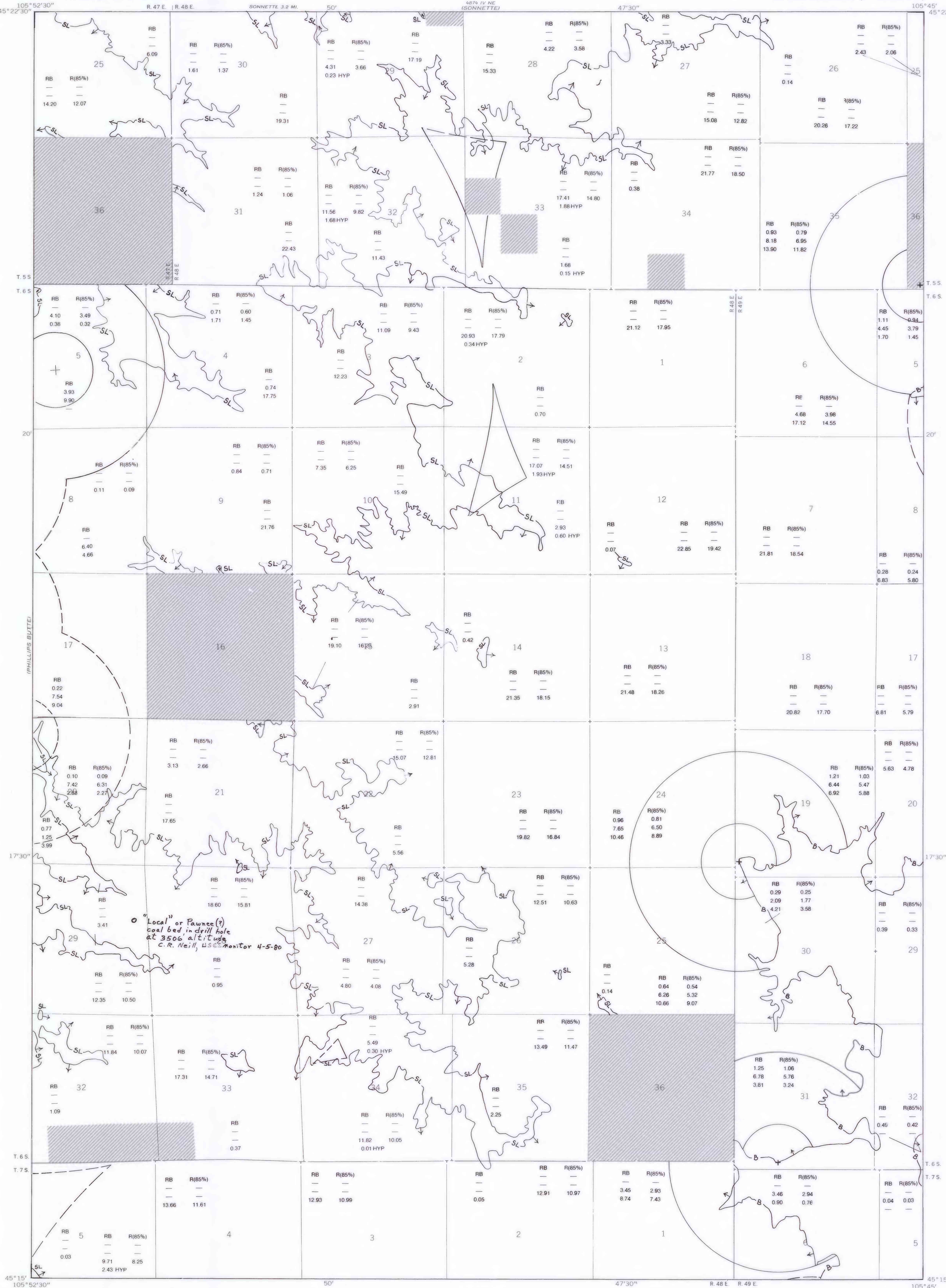
IDENTIFIED AND HYPOTHETICAL COAL  
RESOURCES—Showing totals for Reserve Base (RB),  
Reserves (R), and Hypothetical (HYP) resources, in  
millions of short tons, for each section or part(s) of a  
section of Federal coal land outside the stripping-limit  
line. Dash indicates no resources in that category.

NOTE: Recovery factors have not been established for  
underground development of coal in this quadrangle.  
Therefore, Reserves (R) were not calculated for the coal  
bed in areas outside the stripping-limit line.

To convert short tons to metric tons, multiply short tons by  
0.9072.

To convert feet to meters, multiply feet by 0.3048.

To convert miles to kilometers, multiply miles by 1.61.



Base map from U.S. Geological Survey, 1966

SCALE 1:24,000

Compiled in 1977

COAL RESOURCE OCCURRENCE MAP OF THE HODSDON FLATS QUADRANGLE,  
POWDER RIVER COUNTY, MONTANA

BY  
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE  
1979

PLATE 27

AREAL DISTRIBUTION AND TONNAGE MAP OF  
IDENTIFIED AND HYPOTHETICAL RESOURCES  
OF THE PAWNEE COAL BED